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mpio HX100

User Manual



Thank you for purchasing this product.
Please read the manual carefully before use.

Portable Multimedia Player

Thank you note

Thank you for your HX100 purchase.

We will do our best to compensate to customer's support with the top-on-top product. This guide will ensure that you get the most functions of HX100 with conveniences. Please do read through this guide before using and contact our customer support center for any problem in use. Please read carefully safety instruction before use.



Customer Registration

- Customer can receive continuous services through online register of MPiO(www.mpio.com) or customer registration card to local distributor.
- This site provides you diverse information and news of product.
- By online registration, you can receive diverse event or product information provided by MPiO.
- Using Firmware Update from website, you can receive continuous service for product improvement.
- Diverse of customer questions are answered and online support is available.



Copyright Notice / Trademark / Limited Liability

Copyright Notice

Using this manual if you make play, copy, distribution of the software, audio and video which have an intellectual property are protected by copyright & international laws. Users are responsible for infringement of copyright or intellectual property.

Trademark

HX100 is the registered trademark of MPIO Co., Ltd.
Microsoft Windows 98, Windows ME, Windows 2000, Windows XP is registered trademarks of Microsoft Corporation.

Limited Liability

Limited Liability on improper use

Manufacturer, Importer, Distributor, Agencies shall not be liable for product damages caused by misuse, abuse, improper handling, infringement of literary property by photographing & portrait using this product. The manufacturer shall not be responsible for injury and damages caused by improper uses in out of standard or conditions.

Limited Liability on loss of data

Users should keep separately data stored on disk media, video file, photo file to avoid operating error, failure of unknown cause, loss under repair. Manufacturer, Importer, Distributor, Agencies shall not be liable for damages caused by loss of data stored on the product.

Limited Liability on alteration of functions

The manufacturer, MPIO Co., Ltd may change the specifications or S/W without individual's consent or prior information.

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Safety Instructions

* Precautions - Read through below points to use the player safely.

- When it is connected to PC for transferring files from PC to HX100, the 'Music' is recognized as Music_Box, 'Video' as Video_Box, 'Photo' as Photo_Box and 'Text' as Text_Box.
- Do not alter or delete the name of folders(Music_Box, Video_Box, Photo_Box, Text_Box) which are recognized with connection to PC.
- It is only recognized in the HX100, when the music file is stored in the Music_Box, video file in the Video_Box, Image file in the Photo_Box and text file in the Text_Box.
(Ex: When the music file is stored in the Video_Box or Photo_Box, it is not recognized in the HX100.)
- The equipped TFT-Color LCD is a kind of cutting-edge product and it may be sensitive to either strong impact or change of condition(Temperature and humidity). So we would like to ask you for your precaution on handling HX100 and it may cause paid repair in case of inferior through customer's carelessness.

Safety Instructions



Hearing Safety

Do not use headphones or earphones at high volume. Auditory injury can be caused. Reduce volume or stop using the player if you experience a ringing in your ears. Hearing for a long time can cause auditory injury.



Visual Safety

Watching video files with narrow screen can cause a visual damage. Do not use for a long time continuously.



Safety during driving

Do not use headphones or earphones while cycling, driving such as motorized vehicle & roller skating. It can be against the law in some regions to use headphones or earphones during driving. Do not leave this product in a car. It may cause damages to the product and user according to the ascending or descending of in car temperature.



Safety while walking

Reduce volume of headphone or earphone while walking or at street side, pedestrian's crosswalk because it can cause damages.



Safety in public transportation

It may cause accidental damage using in bus, subway, railway such as public transportation by caught earphones between the doors. Listening with loud volume while using public transportation may cause inconveniences to other people. To protect other's privacy, please use with low volume while using public transportation.



Precaution against drop or impact

Do not drop or put strong impact through stepping on the product. It may cause breakage or inferior.



Prohibition of reassembling, remodeling

Do not disassemble or modify. It may cause breakage, inferior or accidental damage.



Prohibition of place objects inside

It is prohibited to put metal or inflammable objects inside the player for safe usage. It may cause inferior of player.



Prohibition of chemicals

Do not peel the surface using chemicals or detergent.



Prohibition of expose to water, humidity, rain, beverage, medicine and cosmetic

This player, as a electronic product, is easily damaged by water. Do not power on if the player gets wet , then mop up the player immediately and go get repair. Do not use water or other chemicals to clean the player. Use dry mope or towel.



Use only proper accessories

Itt may cause accidental damage if you use another accessories not provided with this player.



Proper data backups

IKeep your data separately which is stored in this player unless it may cause data deletion during inferior or repair. Manufacturer, Importer, Distributor, Agencies shall not be liable for data damages caused by user.



Precaution against fire

Keep out of direct ray of light or such places where there are heating equipment. Such places may cause player inferior or breakage.



Using of approved adapter

Use the AC power adapter belonged to this product for safe usage.



Precaution against heavy lading

Precaution against heavy lading. Do not place heavy objects on the device to avoid breakage. Using of approved adapter. Use the AC power adapter belonged to this product for safe usage.



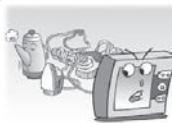
Using of approved battery

Use the battery belonged to this product or manufacturer providing one for safe usage.



Precaution of thunder and lightning

Unplug the power use when it thunders or lightning flashes. Electric shock or breakage may cause.



Power management

Do not overload a single power circuit. It may cause fire or heat.



Precaution against fire

Power off immediately and detach the adapter if smoke, smell or noise such unusual thing happens.



Precaution against magnetic

Magnetic may bring in damage in your player.



Precaution against humidity or dust

Do not leave the player where there are much humidity and dust.



Precaution against using battery, adapter, main body

- Keep the player away from water and excessively humid areas.
- Do not handle with wet hands, it may cause accidental damage and receiving of electric shock.
- Keep away from harsh environments including impacting, heating, sauna or disassembling with sharp thing unless it may cause explosion.
- Do not handle the charging terminal of adapter or battery with metals unless it may cause product inferior or damage.



Precaution against using of infants & children

Keep battery & adapter away from touching or sucking of infants & children. It may cause accidental damage to infants and children.

1. Before Using

1-1 Accessories & Components

HX100



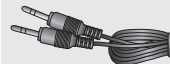
Earphones



Power Adapter



Line-in Cable



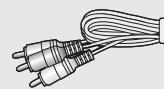
USB Device Cable



Carrying Case



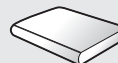
A/V Cable



Application CD



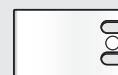
User Manual



Battery



Plastic Cover



1-2 Minimum System Requirements

■ For General Purpose

Category	Specification
CPU	Pentium III or above
Memory	256MB or above
USB	USB 1.1 or above(2.0 Preferred)
Operating System	Windows 98, ME, 2000, XP * Under Windows 98 system, you should install additional driver for use of USB.

■ For using Media Converter Program

Category	Specification
CPU	Pentium IV or above
Memory	512MB or above
Operating System	Windows ME, 2000, XP
Multimedia (Must have Utility for Media Converter)	MS Direct X 9.0b or above (64MB Video Memory), MS Windows Media Player 9, Divx 5.1.1 or above, Internet Explore 6.0 or above

- Media Converter Program does not support in Windows 98/SE.
- Please refer to the 'Help' menu after installation of media converter program for using it.

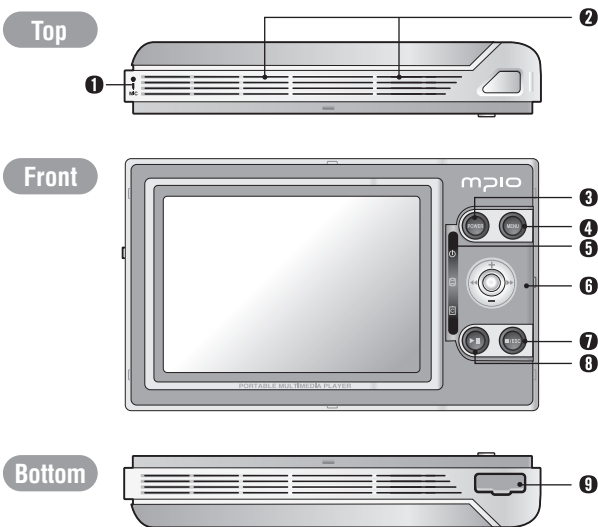
1-3. HDD Management

■ For General Purpose

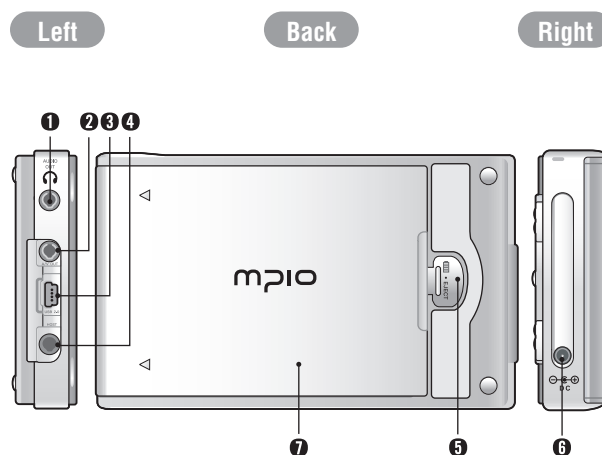
Category	Specification
Data Transfer	<ul style="list-style-type: none"> • When it is connected to PC for transferring files from PC to HX100, the 'Music' is recognized as music_Box, 'Video' as video_box, 'Photo' as photo_box. • Do not alter or delete the name of folders which are recognized in PC explorer. • It can be recognized in the HX100, when the music file is stored in the music_box, video file in the video_box, Image file in the photo_box. (Ex: When the music file is stored in the video_box or photo_box, it is not recognized in the HX100.)
Precaution against HDD handling	<p>Precaution against drop or impact: It may cause breakage by external impact or drop. Avoid accidental impact or drop against the product.</p> <p>While data transmission: It may cause HDD error if the USB cable is left out while data transmission/reception from PC.</p>
Precaution against HDD format	<p>Back-up of the stored data before formatting, if you want to format HDD at your pleasure.</p> <p>It is necessary to format this product with FAT32 file system. It is not recognized in this product to format as NTFS file system under Window base PC.</p>
HDD error	Check through disk error test provided by Window program if it is a HDD error.
Disk breakage	In case of disk breakage, it is not recognized as external storage device or files are not visible in each menu of system. In this case you should ask repair.

2. Getting Started

2-1 Name of Parts



- | | |
|------------------------------------|---|
| 1 Internal Mic | 6 Navigation Key:
Vol up / down, FF & REW
Select: press Upright |
| 2 Internal Stereo Speaker | 7 Stop / Escape |
| 3 Power On / Off | 8 Play / Pause |
| 4 Menu button | 9 Cradle Port |
| 5 LED indicator: Power,HDD,Battery | |



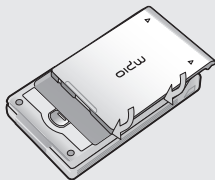
- | |
|---|
| 1 Earphone Jack |
| 2 A/V Jack(connected to TV) |
| 3 USB 2.0(Device) Slot |
| 4 Audio Line-in Jack |
| 5 Battery Lock |
| 6 DC in 5.0V Jack |
| 7 Rechargeable / Detachable Lithium Polymer Battery |

2-2 Connecting & Installation

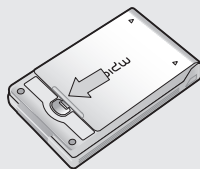
Attaching / Removing battery

■ Attaching the rechargeable battery

1. Cover 4/3 of battery onto the back side of main body And fix it.

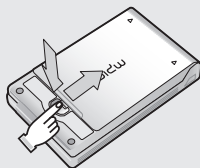


2. Slide the battery to the arrow direction till it locks into the place precisely.

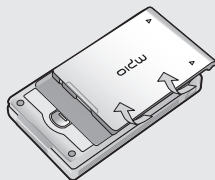


■ Detaching the rechargeable battery

1. Press the lock to release the battery and slide 4/3 of it out of the player.

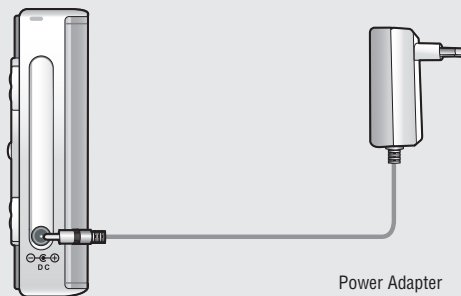


2. Slide 4/3 of the battery out of the player and lift it up then it will release.



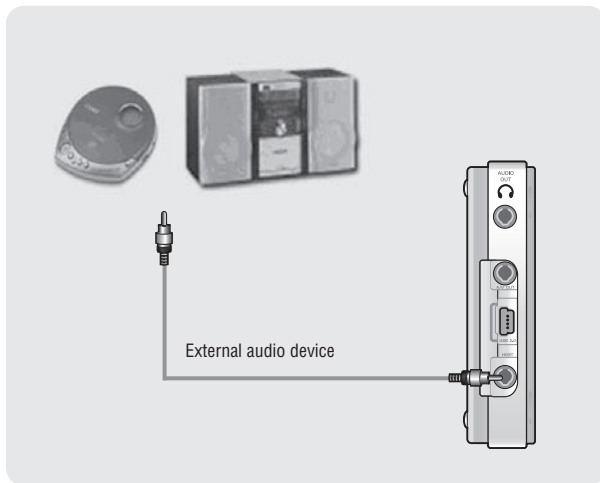
Connecting Adapter and Charging

1. Connect the adapter to the player's DC Jack which is on the lower end of the right side from the front of player.
2. If the LED which is on the lower end of the front illuminates with red color, charging is in processing.
3. The LED light will change into green color when charging is complete.
4. The LED light will turn-off when the adapter is detached.



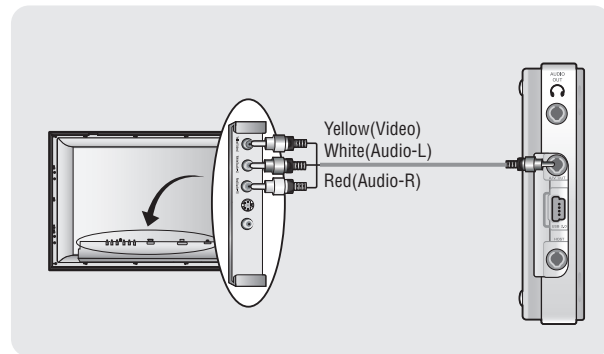
Line-in Connection & Recording

1. Connect the Line-in jack to the Line-out(or earphone) jack of external audio device like stereo system or CD player and etc with Line-in cable.
2. Open port cover on the left side and connect Line-in jack to audio in port at the lowest side.
3. When you finish the connection, you can record line-in audio at [recorder] function.
4. When you finish the recording, please remove the Line-in cable.



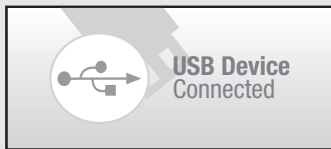
TV Connecting & Display

1. Connect A/V cable to the image input terminal of TV. Yellow is Video, White is Audio left channel, Red is Audio right channel.
2. Connect A/V cable to the end of A/V Jack which is on the lower end of the left side from the front.
3. Set the TV setting as Line-in .
4. Set the TV Out as NTSC or PAL according to your TV set available mode for further information please look up on 9. Setting section in manual.
5. When you power on the player, menu icons will be displayed on TV screen and you can enjoy video file by setting TV screen.
6. If you pull out the A/V cable from the player, then you can enjoy video file on the LCD screen again.
7. If you connect A/V cable to the player while screen playing on built-in LCD, then there is no output on LCD.

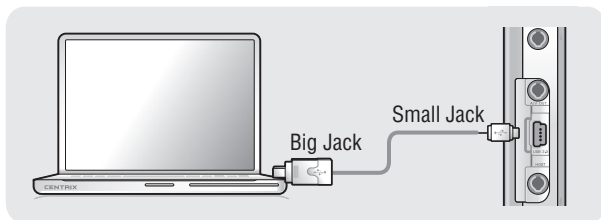


Connecting to PC with USB 2.0

1. Power on the player. Wait until the main screen is displayed.
2. Connect to a PC with USB 2.0 cable(Mini USB B, long cable). When it is connected to PC, 'USB Device Connected' message will pop-up on the screen of the player.



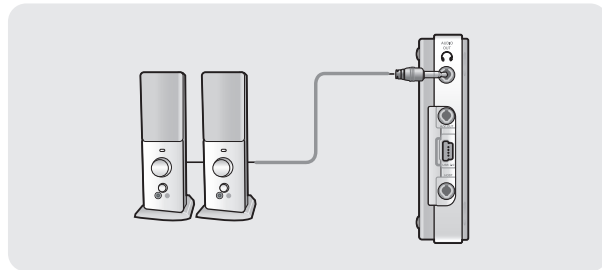
3. Open USB port which is on the left side and connect USB 2.0 cable (Mini USB B, long cable) with USB 2.0 Jack which is on the lower end of player.
4. When it is connected to the main body, it is recognized as a mass storage on PC. If no power source is input, the USB is not recognized. Power on when it is connected to PC.
5. When it is connected to PC, it is recognized as a mass storage, HX100.
6. You can transfer movie, music, image file from PC to audio box, video box, photo box folder in the player.



- * Precaution
- You should connect to PC with USB 2.0 port.
 - In Windows 98 system, you should install additional USB driver for recognition of USB.

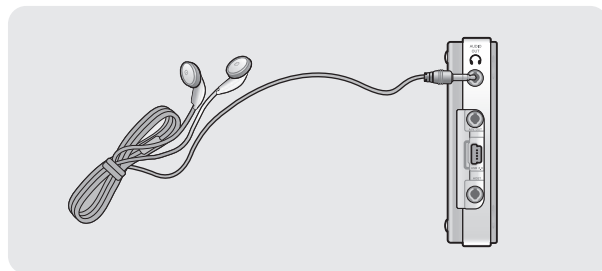
Connecting external speaker

1. Connect the external speaker to the Audio jack.(Speaker connection cable is not provided by manufacturer.)
2. Enjoy listening HX100 with adjust the volume.



Connecting Earphone

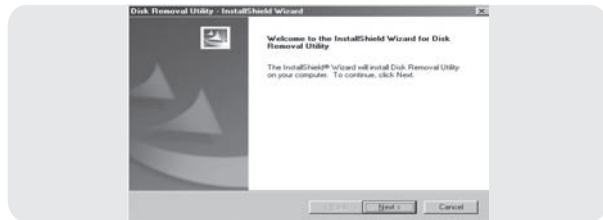
Connect the earphone jack to the player.



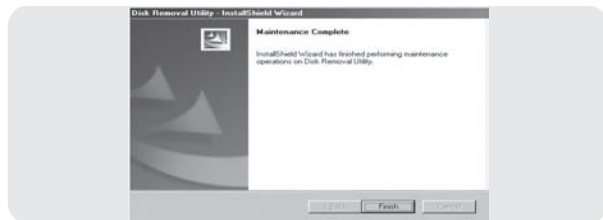
Install USB Driver for Windows 98/SE(Windows 98 SE Only)

If User's PC is Windows 98/SE, user has to install USB driver. You can install USB driver in application CD.

1. Please insert application cd and browse Win98 USB Driver.exe in Win98 USB Driver folder.
2. If you run Win98 USB Driver.exe, you can find flowing screen and click next.

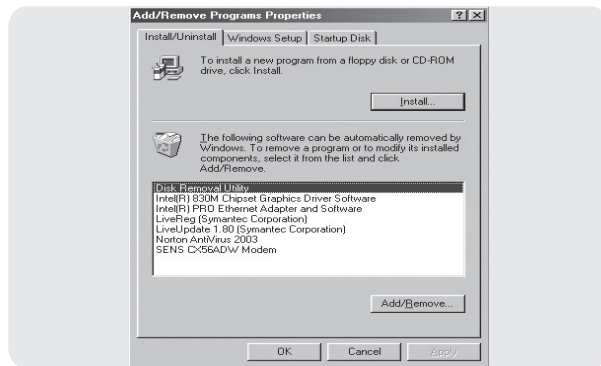


3. If the installation of win 98 usb driver is finished, you can use.

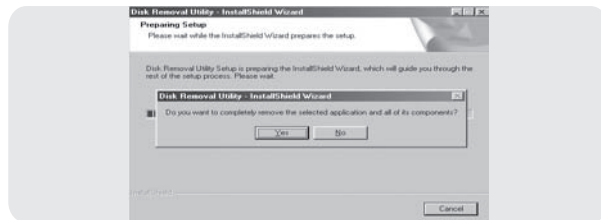


Uninstall Windows 98/SE USB Driver

1. To uninstall USB driver, move to Start-> Setting -> System Control -> Program add/delete.
2. Select Disk Removal Utility.



3. Press Yes and then the uninstallation is finished.



Separating product from PC

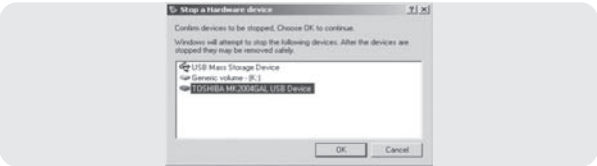
- 1. Click the 'Safely removing device' icon in the PC tray, If the tray icon is not displayed, click the 'Display hidden icon' to view the hidden icon.



- 2. Select 'Toshiba MK2004GAL USB Device' and OK button.



- 3. Click the message pop up and press ok.



- 4. You can disconnect USB cable from product and PC.



2-3. Basic Function

2-3-1 Power On / Off

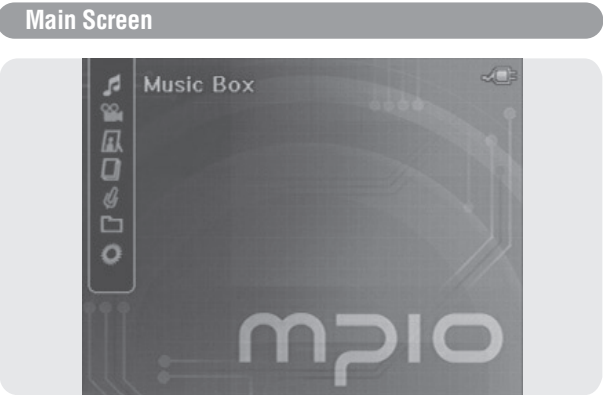
Power On

Step	Function
	1. Press power button about 3 seconds to make power on.
	2. Hard disk LED(middle LED) is on and then Power LED(top LED) is on.
	3. Opening Image is displayed and then the main menu is displayed.

Power Off

Step	Function
	1. Press power button about 3 seconds to make power off. Stop all functions before you shut off the player.
	2. Ending Image is displayed and then the player is off. Make sure of the battery remaining since it might be turned off automatically in case of out of battery.





2-3-2 Main Screen



■ You can execute the functions of each menu by using navigation button.






Category	Description
Music Box	Playing music files
Video Box	Playing video files
Photo Box	Playing image files
Text	Playing .txt files
Recorder	Recording voice
File Manager	Managing files
Setting	Setting the functions

2-3-3 Name & Functions of Buttons

Button	Function Description
	Power Press when power on/off. Press about 3 seconds to make power on/off.
	Menu Use the [MENU] button to set play mode in Video Box, Photo Box, Text.
	Play / Pause Use [▶] button to play/pause music/video file and press again to pause play of music/video.
	Stop / ESC Use [■/ESC] key to pause playing(music, video, image) and move to upper screen. Use [■/ESC] key to move to upper menu.

2-3-4. Navigation Button

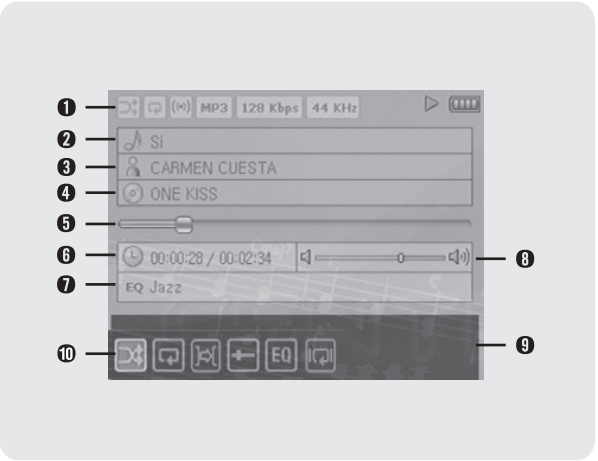
- Below functions are realized by pressing Navigation button to desired direction.

Button	Function Description
	File playing: Playback of previous song for music, previous frame for video, previous image for photo.
	File Manager: Use REW button to shift Device type.
	File playing: Playback of next song for music, next frame for video, next image for photo.
	File Manager: Use FF button to shift Device type.
	During file navigation: Moves to upper direction.
	Audio/Video File playing: Turn up the volume.
	Text Viewer: Moves line of text file.
	During file navigation: Moves to upper direction.
Select 	Audio/Video File playing: Turn down the volume.
	Text Viewer: Moves line of text file.
	(Press Navigation Key Upright) Play selected file. Moves to selected folder.

3. Music Box

3-1 Music Player Screen

- You can listen stored music files(MP3,WMA,OGG etc) through music player.
- Please refer to 14. Product specification of this manual for the information of playable music file.



- | | |
|----------------------------------|---------------------------|
| 1 Status Display | 6 Present playing time |
| 2 Title | 7 Equalizer |
| 3 Artist name | 8 Volume Level |
| 4 Album | 9 Lyric |
| 5 Relative location in the music | 10 Show Music Box Options |

3-2. Detailed Description

3-2-1 Play Audio File

Music Box Icon Selection

Select Music Box icon and press Select button to listen audio file in Music Box folder.

Select and play file

Put cursor on the file you would like to play back from the folder under 'Music Box' and click select or play button.

Unplayable file

If selected file is unplayable or a damaged one, then 'Can't Play' message will be shown on the screen and it returns to the folder again.

Delete file(s)

If you want to delete file in folder, move select bar on targeted file and press 'Menu' button and choose 'Delete' or 'Delete All'. If you choose [Yes], the file is deleted.



Play All

If you want to play all files in selected folder, please click [Play All] icon in top.



Play recent

If you want to play again recent audio file you listened, please click [Play recent] icon in top.



View Music Player

You can view music player. You can set volume and other functions.

3-2-2 Button Usage



FF / REW

If you press [◀◀] while listening music, you can move to previous file. If you press [▶▶], you can move to next file.



VOL(+/-)

You can turn up or down music volume by pressing [+/-] button.



Play / Pause

Use [▶▶] button to play/pause music/video file and you press again to pause play of music/video.



ESC

You can move to file list screen by pressing [■/ESC]. You can search files or select [Text] or [Photo] function listening music.



MENU

If you press [MENU] button while listening music, you can set play mode. You can find more information on play mode, look at next.

3-2-3 Setting Play Mode

- You can set play mode by pressing [menu] key.



Shuffle

You can play files in present folder randomly.



Repeat

You can set repeat function as 'single or all files'.



Play Single

You can play selected file play repeatedly.



Resume play

Move to recently played portion of the file.



Balance

You can set the Balance of Right/Left audio output.



Equalizer

You can set Equalizer preset setting. You can set equalizer as 'Standard / Rock / Pop / Jazz / Classic / Dance / Heavy / Disco / Soft / 3D Stereo / Hall'.



Interval Repeat

Press the select button once from the point where you want to make the section replay, then you will see the Δ indicator beneath the progress bar that is informing the section replay start point.

3-2-4 Play List

File selection & Add to Play list

Select music file and click 'Menu' button briefly. You will be asked whether you want to add to Play list. Use direction key to select [Yes] button then the file will be added to the list.

Play [Play list]

Select file under the play list and the files in Play list are played consecutively.

Pause / Stop

If you want to stop or pause a audio file, press play/pause key.

Delete play list file(s)

If you want to select file in Music Box folder, press 'Menu' button and choose 'Delete' or 'Delete All', and then the files are deleted.

3-2-5 Multitasking Function

- You can view photo album or text while listening music at the same time. The playback condition is displayed at the upper end of screen and it is adjustable with play/pause button.



Playing



Pause

- How to use multitasking function.

Select desired music file

Play desired music file.

ESC Button

In case you press [■/ESC] button, it will be escaped from the music box menu while music file playing.

Enjoy text or photo album

You can enjoy e-book(.txt file) or photo album while listening music.

4. Video Box

4-1 Video Box Screen



- You can watch video file stored in Video Box folder.
- You can watch WMV or ASF file which is not played in this player through conversion of Media Converter Program.
- Please refer to [Product Specification] of this manual for the information of playable video file format.



- ① File name
- ② Relative location in the video
- ③ Present playing time
- ④ Show Video Options
- ⑤ Total Play time

4-2 Detailed Function

4-2-1 Play Video File

Video Box Icon Selection	Select Video Box icon and press Select button to play video file in Video Box folder.
Select and play file	Put cursor on the file you would like to playback from the folder under 'Video Box' and click select or play button.
Unplayable file	If selected file is unplayable or a damaged one, then 'Can't Play' message will be shown on the screen and it returns to the folder again.
Delete file(s)	If you want to delete file in folder, move select bar on targeted file and press 'Menu' button and choose 'Delete' or 'Delete All'. If you choose [Yes], the file is deleted.
	Play All If you want to play all files in selected folder, please click [Play All] icon in top.
	Play recent If you want to play again recent video file you played, please click [Play recent] icon in top.

4-2-2 Button Usage



FF / REW

If you press [◀◀] while playing video file, you can move to previous (about 30 seconds) scene. If you press [▶▶], you can move to next scene of the file. You can set move time at setting.



VOL(+/-)

You can turn up or down music volume by pressing [+/-] button.



Select

If you press [Select] button while playing video file, you can view play information display (Look at Video Box screen). The display will disappear within 3 seconds.



Play / Pause

Use [▶||] button to play/pause video file and you press again to pause play of music/video.



ESC

You can stop playing file and move to file list screen by pressing [■/ESC]



MENU

If you press [MENU] button while playing video file, you can set play mode. You can find more information on play mode, look at next.

4-2-3 Setting Play Mode

- You set play mode by pressing [Menu] key.



Resume Play

move to recently played portion of the file.



Subtitle On

Subtitle On / Off

You can switch subtitle on and off. To play subtitle there should be same file name as video file name in same folder, which has extension name as smi.



Subtitle Off



Full screen

Screen size

You can choose screen size as original or full screen.



Original



Interval Repeat

Press the select button once from the point where you want to make the section replay, then you will see the ◀ indicator beneath the progress bar that is informing the section replay start point.

5. Photo Box

5-1 Photo Viewer Screen

- You can see saved image file(JPG) through photo viewer.
- Please refer to the 14. Product Specification of this manual for the information of playable image file.



❶ File name

❷ Original size

❸ Current mode

❹ Show Photo Options

5-2 Detailed Function

5-2-1 Play Photo File

Select Text icon

Select 'Photo Box' icon using navigation button. (By selecting the icon will be indicated.) It will be switched over as snapshot mode automatically.

Select and view file

Put cursor on the file you would like to playback from the folder under 'Photo-Box' and click select or play button.

Unplayable file

If selected file is unplayable or a damaged one, then 'Can't Play' message will be shown on the screen and it returns to the folder again.

Delete file(s)

If you want to delete file in folder, move select bar on targeted file and press 'Menu' button and choose 'Delete' or 'Delete All'. If you choose [Yes], the file is deleted.



Play All

If you want to play all files in selected folder, please click [Play All] icon in top.



Play recent

If you want to play recent video file you played again, please click [Play recent] icon on top.

5-2-2 Button Usage



FF / REW

If you press [◀◀] while playing photo file, you can move to previous file. If you press [▶▶] you can move to next file.



VOL(+/-)

If you listen music playing photo file, you can turn up or down music volume by pressing [+/-] button.



Select

If you press [Select] button while playing photo file, you can view play information display. The display will disappear within 3 seconds.



Play / Pause

Use [▶||] button to play/pause photo file and you press again to pause play of photo.



ESC

You can stop playing file and move to file list screen by pressing [■ /ESC].



MENU

If you press [MENU] button while watching photo file, you can set play mode. You can find more information on play mode, look at next.

5-2-3 Setting Play Mode

- You set play mode by pressing [Menu] key.



Zoom Mode

You can choose zoom mode by pressing [Menu] button. And then you can Increase image file up to 5 times of original size by pressing [+/-] button. If you press [■/ESC] button, you can stop zoom mode.



Move mode

You can watch all screen of enlarged image file by selecting Move mode. You can move photo screen by pressing navigation button. If you press [Select] button, Move status will be displayed. If you press [■/ESC] button, you can stop move mode.



Rotation Mode

You can rotate image file in rotation mode. You can rotate photo screen by pressing [◀◀ / ▶▶] button. If you press [Select] button, Rotation status will be displayed. If you press [■ /ESC] button, you can stop rotation mode.



Delete

If you want to delete present photo file, you can select 'Delete' function.



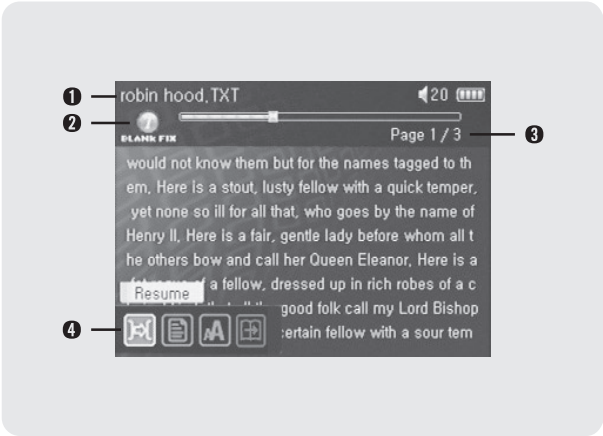
Wall paper

You can select present photo file as wall paper. Wall paper will be displayed in opening, ending, main and music play screen.

6. Text Box

6-1 Text Viewer Screen

- Text Box is a function to view a stored Text file(.txt) in text_box folder.
- If you want to view text file while listening music, please look up on 3. Music_box section.



- ① File name
- ② Relative location in the text
- ③ Page
- ④ Show Text Options

6-2 Detailed Function

6-2-1 Play Text File

Select Text icon

Select 'Text' icon using navigation button.(By selecting the icon will be indicated.) it will be switched over as snapshot mode automatically.

Select and view file


Put cursor on the file you would like to playback from the folder under 'Text' and click select or play button.

Unplayable file


If selected file is unplayable or a damaged one, then 'Can't Play' message will be shown on the screen and it returns to the folder again.

Delete file(s)

If you want to delete file in folder, move select bar on targeted file and press 'Menu' button and choose 'Delete' or 'Delete All'. If you choose [Yes], the file is deleted.

Play All

If you want to play all files in selected folder, please click [Play All] icon in top.

Play recent

If you want to play again recent video file you played, please click [Play recent] icon in top.

6-2-2 Button Usage



FF / REW
If you press [◀◀] while viewing text file, you can move to previous page. If you press [▶▶], you can move to next page.



VOL(+/-)
When you listen music playing text file, you can turn up or down music volume by pressing [+/-] button.



Select
If you press [Select] button while playing text file, you can view play information display. The display will disappear within 3 seconds.



Play / Pause
When you listen music playing text file, you can use [▶||] button to play/pause audio file and you press again to pause play of audio file.



ESC
You can stop playing file and move to file list screen by pressing [■/ESC].



MENU
If you press [MENU] button while watching photo file, you can set play mode. You can find more information on play mode, look at next.

6-2-3 Setting Play Mode



Resume play
Move to recently played portion of the file.



Normal
You can set text file play mode as normal and blank fix. You can set play mode as blank fix mode to shorten or remove blank in text file.



Blank Fix



Normal Font
You can change present font size as normal or small.



Small Font



Auto Scroll
You can set the time of the auto page/line viewer at your convenience.

7. Recorder

7-1 Recorder Screen

- You can record conversation or lectures using built-in microphone or make direct recording of music from audio device using line-in cable attached.
- Microphone is built-in on the top of player, so you should use it with considering the recording direction.



- | | |
|---|--------------------------------------|
| ❶ Audio Input type displayed: Mic or line-in | |
| ❷ Bit Rate and Sampling Rate of recorded file | |
| ❸ Status display Ready – recording ready | |
| Waiting | ❹ Recording or playing progress time |
| Recording – recording is in progress | ❺ Recording or playing file name |
| Play – playing recorded file | ❻ Recordable volume(Used/Total) |
| Pause – pause recording | ❼ Progress bar |
| Stop | ❽ Recording Icon |


7-2 Detailed Function


7-2-1 Select Recorder Function


Recorder Icon Selection

Select Recorder icon and press Select button to record audio file.



7-2-2 Button Usage



**Play / Pause**
You can use [▶||] button to play/pause recording function.


**MENU**
If you press [MENU] button while recording, you can set play mode. You can find more information on play mode, look at next.



**ESC**
You can stop recording file and move to main screen by pressing [■/ESC].

7-2-3 Setting Recording Mode

**Record****Pause**
You can set record/pause function by pressing [Select] button.

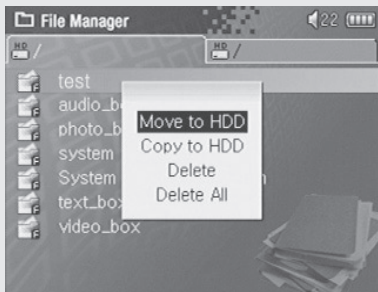
**Play****Pause**
You can set play/pause function by pressing [Select] button.

**Stop**
You can stop playing or recording function.

**Input selection Mic****Line-in**
You can set recording input type as Mic or Line-in.

8. File Manager

8-1 File Manager Screen



8-2-2 Button Usage



FF / REW

You can select folder displayed above by pressing [▶▶/◀◀].



VOL(+/-)

You can move up/down and select file by pressing [+/-].



ESC

You can stop playing file and move to main screen by pressing [■/ESC].



MENU

If you press [MENU] button, you can set file manager mode. You can find more information on play mode, look at next.

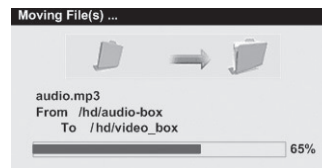
8-2 Detailed Function

8-2-1 Select File Manager Function

Select File Manager icon

Select 'File Manager' icon using navigation button. (By selecting the icon will be indicated.) It will be switched over as file manager mode automatically.

8-2-3 Setting File Manager Mode

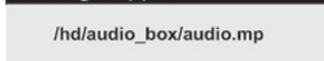


Move to HDD

Move file to other folder displayed right or left section.

Copying File(s) ...**Copy to HDD**

Copying file to other folder displayed right or left section.

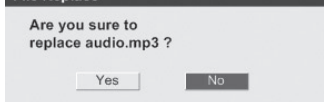
Deleting File(s) ...**Delete**

Delete selected file.

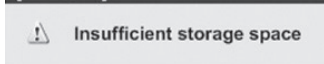
Delete All

Delete all files in present folder.

8-2-4 Notice

File Replace**File copy**

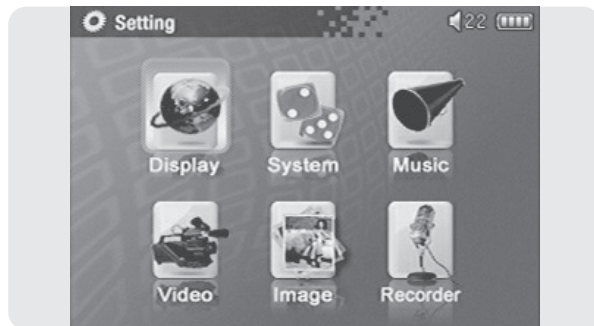
If there is a same file name in designated folder, message below will be displayed.

[NOTICE]**Disk volume check**

If the Disk volume is less than selected file size, message below will be displayed.

9. Setting

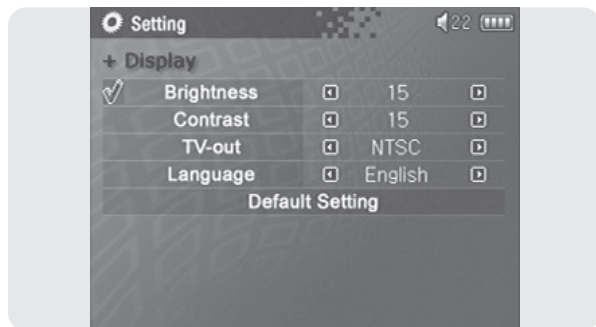
9-1 Setting Menu



Menu	Function
Display	Brightness
	Contrast
	TV Out
	Language
System	Product
	OS Version
	HDD
	LCD Off(sec)
	Power Off(min)
	Firmware Update

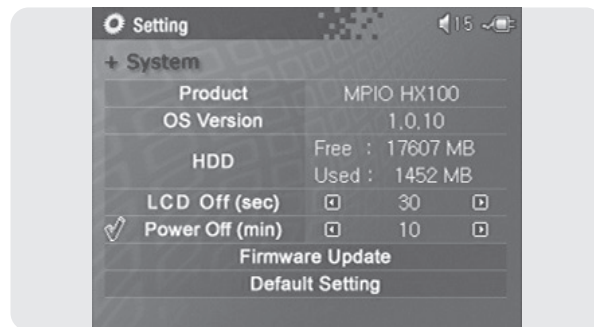
Menu	Function
Music	Speaker
	Equalizer
	Balance
	Bass Boost
	Replay
Video	Shuffle
	Screen Size
	Subtitle
	Language
Image	Seek
	Interval(sec)
Recorder	Slide
	Slide show time
	Bit Rate
	Mic Gain

9-2 Detailed Function



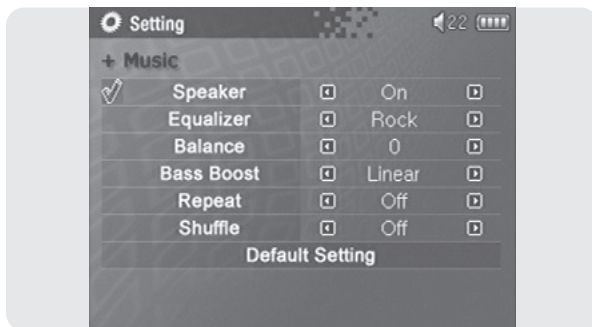
■ Display

Function	Description	Default Value
Brightness	To select the LCD brightness.	15
Contrast	To select the screen contrast.	15
TV Out	TV Out is to set the output of video signal form when Video Out is set as TV. NTSC is for USA, Canada, Korea, Japan etc. PAL is for Europe, Australia etc.	
Language	You can set the display language. Language pack is supplied to display in desired language.	
Default Setting	To set as factory mode.	



■ System

Function	Description	Default Value
Product	Shows product name.	
OS Version	Shows version of firmware.	
HDD Usage	Shows Hard Disk Drive usage. Free means empty volume and Used means used volume.	
LCD Off(sec)	LCD Off menu is to set the automatic LCD off time when there is no key input. Range: Always on, 5~60 seconds, increases per 5 seconds.	30
Power Off(min)	Power off menu is to set the automatic power off time when there is no key input. Range: Always on, 10~120 minutes, increases per 10 minutes.	10
Firmware Update	To update the firmware. There should be supplied file in the 'system' folder. Firmware update processing will be displayed at the lower end of the screen. *notice: Please make sure not to power off while firmware updating. It is recommended to be sourced with adapter while updating. You should be careful of the power since it will be not recovered when it is powered off while updating.	
Default Setting	The setting value of LCD off and power off are converted to default mode.	



■ Music

Function	Description	Default Value
Speaker	You can convert the setting value of the built-in speaker.	on
Equalizer	Audio effect will be set when there is no setting value in the ID Tag while playing.	Standard
Balance	To adjust the left/right value upon the Audio output of speaker or earphones. Range: -5 - 0- +5	0
Bass Boost	To adjust the Boost mode. Range: Linear, Adaptive	Linear
Replay	To set the replay mode. Range: All, Single, Off	All
Shuffle	To set the random or successive playback of title. Range: On/Off	
Default Setting	To set as factory mode.	Off



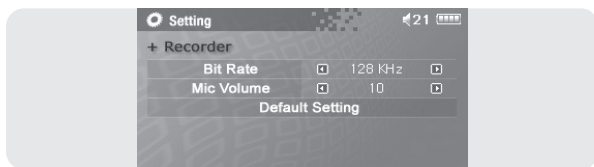
■ Video

Function	Description	Default Value
Screen Size	To set the screen size while playing. Range: Original/Full Screen	Original
Subtitle	To set the On/Off of subtitle. Range: On/Off	On
Subtitle Language	To select the subtitle language. Range: English/Korean	
Seek Interval (sec)	To set the seek interval time by pressing FF/REW button while playing. Range: 5~600	30
Default Setting	To set as factory mode.	



■ Image

Function	Description	Default Value
Slide Show	To select the slide show. When it is on, it will be automatically played after the minutes (seconds) designated below. Range: Off/On	On
Slide Show Interval (sec)	To set the interval between the slide show. When it is Always on, it does not work. Range: Always on, 1~20 seconds	8



■ Recorder

Function	Description	Default Value
Bit rate (kbps)	To set the Bit Rate which is used for recording. Range: 96Kbps, 128Kbps	128
Mic Gain	To adjust the volume upon the Mic input. (It is fixed as 10.) Range: 10	10

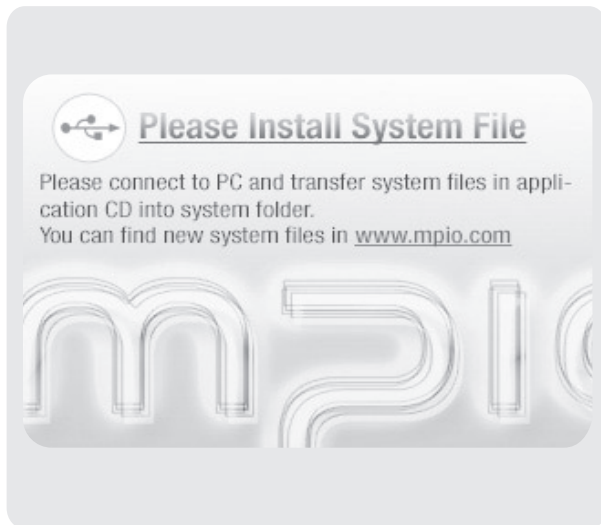
10. Firmware Update

Process	Description
New Firmware File download	When new firmware update file is released, save it downloaded from web site(www.mpio.com). Check the firmware version before saving.
File Upload	Connect this player to PC with USB Cable. You should connect this player to USB 2.0 jack of PC. When this product is recognized as external storage device on PC, please delete previous firmware in System folder and save the downloaded firmware updated files to the System folder of player.
USB cable separation	After saving new firmware files in 'System' folder, separate USB cable after executing 'Safely removing device'.
Update start	Put cursor on Setting>System>Firmware Update and press Select key then it will start to search Update file and start updating. Do not turn off or key operating while updating. It will be turned off automatically when update is completed.
Update completion	When update is completed, it is turned off automatically. If you reboot the player, then it will be operated as a Firmware updated status. To check that there is no failure in update, go to 'System' folder under the 'Setting' folder and check the version of Firmware in order to confirm whether update is completed.

11. System Recovery

Notice: System recovery function is advisable only if the error message is displayed repeatedly. When you format the HX100, or if it doesn't work properly, the following message will appear.

Error Message



Recovery

1. While the power is turned on, connect the HX100 to the PC with a USB cable.
2. Make a 'system' folder on the HX100 using the PC. You have to set the folder name to 'system' so that it can be recognized by the HX100.
3. Insert the CD-ROM that is supplied with the product into the CD-ROM drive of the PC, and copy all the 'system recovery' folder files in the CD-ROM into the 'system' folder.
4. After running 'Safely remove hardware', remove the USB cable from the HX100 and then reboot the HX100 to complete the recovery procedure.

Management of the HX100 HDD

- In case of format or chkdsk the HX100 HDD
 - Turn the HX100 on and press the 'Pause(▶||)' and 'ESC(■)' buttons simultaneously before the main screen appears. Then an error message appears on the HX100.
 - When the error message appears on the screen, connect the HX100 to the PC, then format the disk and run chkdsk.
 - * Note: To run chkdsk at the PC's DOS window, enter chkdsk <current Drive name of HX100>/f command and click 'Enter'.
- Ex) In case the HX100 is recognized as an 'E' drive on the PC, enter chkdsk e:/f and click 'Enter'.

12. HX100 Media Converter User Manual

12-1 Before start

Software Requirements

- HX100 Media Converter may not properly work unless the following components are installed:
 - OS: Windows Me / 2000 / XP
 - Microsoft DirectX 9.0b or higher(requirement)
 - Microsoft Windows Media Player 9 or higher(requirement)
 - Microsoft Internet Explorer 6 or higher(requirement)
 - DivX 5.2.1(requirement)

You can get those components from the installation disc or various web sites if they have not been installed on your system.

Hardware Requirements

- HX100 Media Converter will properly work on most multimedia PCs.
- However, we recommend it to be used on up-to-date PCs for satisfactory performance.
- Our suggested system is as follows:
 - Intel Celeron CPU(Pentium-4 is recommended)
 - 256MB RAM(512MB is recommended)
 - DirectX 9 supported Graphic Adapter
(64MB video memory is recommended)

Notices for Use

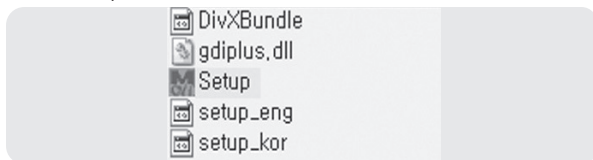
- We recommend users to maintain their operating system at the up-to-date state by activating the automatic update service of MS Windows. HX100 Media Converter may not be installed or work properly under outdated systems.

- HX100 Media Converter is optimized for DivX 5.2.1. Thus, it is possible to introduce errors in conversion on the system with unified codec packs or older versions of DivX.
- HX100 Media Converter may not work if your system has unified codec packs not properly installed. If HX100 Media Converter converts movies incorrectly or crashes, you need to try uninstalling the unified codec packs and then reinstall DivX codec and Windows Media Player.
- HX100 Media Converter may not convert some non-standard or abnormal media files, of which video and audio codec information will not properly shown on the source media file window.
- The new automatic recovery system can handle movie clips that are damaged or contain invalid samples. However, it does not give a guarantee of successively converting all invalid movie clips; the severely damaged clips may be failed to be converted or their converted video and audio may be out of sync.
- Converting process usually requires more system resources than most 3D games. Thus, during converting movie clips, we recommend not to use other programs, which may be slowed down or stalled. Especially, it is highly recommended not to run any applications using audio/video resources such as games, audio/video players, and audio/video editing.
- Some screen-savers using lots of audio/video resources possibly obstruct the converting process. In that case, the screen-savers need to be deactivated for proper conversion.
- In some systems, they may enter power-saving states due to their automatic power managers although the converting processes are ongoing. Such case may be avoided by deactivate or modify the power managers in accordance with their instruction guides.
- You can contact to HX100 support center for any technical supports.

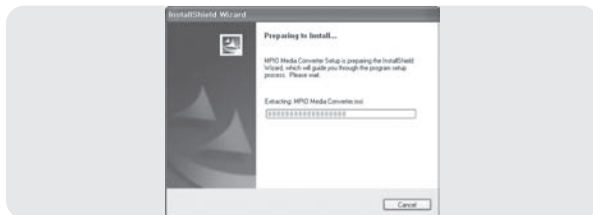
* Note : In principal, you can never get any technical support for troubles in handling illegal media files.

12-2 How to Install

1. Click setup file in HX100 Media Converter folder.



2. Installation starts.



3. Fill in the user name and company and serial number. Serial number is attached in application cd cover and manual.



4. If the Divx 5.2.1. bundle is not installed in PC, Divx 5.2.1 is automatically installed and the installation is finished.

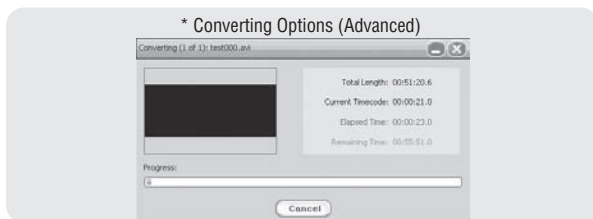
12-3 How to Convert Media Files?

HX100 Media Converter is a tool for converting movies of various formats to those of DivX-AVI for HX100. It can handle all movie files playable with Windows Media Player. HX100 Media Converter has a simple, compact user interface as shown in the following figure.



1. You can add the source media files to convert by pushing the **ADD** button and then selecting one or more files. You can remove files from the source-file list by selecting them and push the **REMOVE** button.
2. Then, specify a target folder to which the converted files are saved by pushing the **Target** button. You can use an existing folder as the target or create a new one. You can not proceed to the next step unless you specify the target folder.
3. When you are ready to convert, push the **Start** button. Then the remaining work you need to do is just waiting; everything will be done automatically.

* Note : Due to the new automatic recovery system, the converting process may be stalled for 1~3 minutes. This is a portion of automatic recovery for damaged movie clips, and hence you need not to terminate or cancel the converting process by compulsion.



1. The Media Converter suggests profiles optimized for HX100, which can be selected from **320x240 (Preserving Aspect-ratio)** ▼, as follows:

- Ⓐ 320x240(Preserving Aspect-ratio): (Default) A profile for the LCD of PMPs. The source clips will be resized so that their widths are 320-pixels while preserving their aspect-ratios. It can be suitable for 4:3 or wider video clips such as movies.
- Ⓑ 640x480(Preserving Aspect-ratio): A profile for televisions(using TV-out of PMPs). It is the same as (a) except that widths of the converted movie clips will be 640-pixels.
- Ⓒ 320x240(4:3): A profile for the LCD of PMPs. The source clips will be stretched to 320 by 240 pixels. It is useful for converting video clips that originally have 4:3 aspect-ratios.
- Ⓓ 640x480(4:3): A profile for televisions(using TV-out of PMPs). It is the same as (c) except that widths of the converted movie clips will be stretched to 640 by 480 pixels
- Ⓔ Video Recompression: A profile for preserving resolutions of the source clips. It is useful for fixing movie clips not playable on PMPs although they are in the standard format for PMPs(See specification for PMPs).

* Note1 : Converting video clips of low-resolution or low-quality to the profile of the high-quality(640x480) will not improve their visual quality(although their file sizes will be larger). Even though the user wants to watch video clips on televisions, (a) is suitable for the source clips of low-resolutions.

* Note 2 : Video clips of 640x480 resolutions will not be played with higher visual quality than those of 320x240 resolutions on the LCD of PMPs. For watching on PMPs only, (a) is the most suitable.

2. The 2-pass converting can be used for source clips failed to be converted with the 1-pass mode, for example, audios of the resulting clips are not noticeably synchronized with videos; the length of the resulting ones are very shorter than that of the sources; or audios are missed out.

* Note 1 : The 2-pass converting is not superior to the 1-pass mode but an alternative method. For some video clips, the 2-pass mode is more likely to cause errors than the 1-pass mode. Thus, it is recommended to be used for only converting failed clips with the 1-pass mode.

* Note 2 : The converting process may be failed although the source clips are playable on PCs. This is probably caused by audio/video codecs due to damaged or invalid samples of the source clips rather than errors of the Media Converter. In general, illegally copied video clips are likely to be damaged or invalid by improper creation or distribution, which prohibits successful converting.

* Note 3 : For video clips failed to be converted, the user can converting a clip at a time. This approach can reduce lots of errors. If this approach is not useful, the user can use the 2-pass mode finally.

* Note 4 : Video clips introducing repetitive errors can be regarded as damaged or invalid ones. Such clips may not be converted although the user uses the 2-pass mode. In this case, these clips can be considered as unconvertible ones.

13. FAQ

- HX100 is committed to providing its customers with the best possible support.
- This page is for troubleshooting against possible problems that may occur when you are using the HX100. Please take note and follow the procedures below.

Troubles	Solutions
Can't hear anything from earphones.	Check whether volume is set as 0 or low volume. Check whether earphones or wire remote controller is plugged firmly.
Nothing is displayed on the LCD screen.	To save the battery if there is no key input while playing audio file the LCD display is automatically turned off. If you press any key then LCD will be turned on again. No image will be displayed if HX100 is connected to TV with A/V cable. (TV Out) At this moment, if you disconnect the A/V cable, you can watch on the HX100 screen. (Refer to P19).
No Sound of Music or Video files.	Music file playback is not possible if the file is not supported format in this player or compressed out of specification. Check supported audio/video file specification in advance.
Video file does not play properly.	Not supported video file or compressed out of specification, damaged files will not be played. Check supported video file specification in advance. WMV file is playable with conversion at Media Converter program included in Application CD. Even it is AVI file, if the video file has Microsoft WMV format, then it can not be played. When you select video file playback, the initial loading time will be varied according to the format of video file.
Photo file does not play properly.	Some image file may not be playable according to the Photo file specification. Check the supported image file specification of this player.

Troubles	Solutions
LCD is repeatedly turned off.	LCD off function is designated for extending the playing time. If there is no key input while music playing, recording, viewing photo or USB connecting, the LCD is automatically turned off. (Refer to P53)
Power is off repeatedly.	Power off function is designated for extending the playing time. If there is no key input while playing, the power is automatically off. Press power button to play again. (Refer to P53)
Video caption does not display.	This product supports only SMI file playback. The subtitle file which has the extension name as .smi should have the same file name as video file and be in the same folder. Check whether Caption is 'On' in Play Mode. When Caption is 'OFF' caption display is not available.
Remote controller does not operate.	Check whether remote controller Hold key is 'On'. When Hold key is 'On' remote controller does not operate.
Recording is not operated.	There is no source of power or filled with stored data. Check before recording the remaining room for store data and organize files.
How can I download new firmware?	Please visit www.mpio.com and look up on download section in customer support pages.
How can I make the customer Register?	After purchasing HX100, visit www.mpio.com site of each country to subscribe & register under Support section.
Where can I find the serial number?	Serial number is pasted on the battery attach part or the side of box.
Player is not recognized as an external storage device when it is connected to PC as an USB device.	If power is off, the player is not recognized. If power is weak, the player is not recognized as an external storage device. You should install separate driver under Windows 98 version of PC. Install USB 98 Driver in the supplied Application CD. Check whether USB Cable is connected to USB 2.0 port.

14. Product Specifications

■ General Specifications

Category		Specifications
Storage		20GB 1.8" HDD
Video	LCD	3.5" TFT LCD, QVGA(320X240)
	TV Out	NTSC / PAL, D1(720X480)
Speaker		Built-in Stereo Speaker
Voice Recorder		Built-In Mic
Image Viewer		JPEG Support
Text Viewer		.txt file support
PC Interface		USB 2.0(Device)
Operating System	OS	Windows 98 SE / ME / 2000 / XP, Mac 9.2 above
	File System	FAT32 File System
Play Time	Video *	4&1/2 Hours(320X240, 25Frame), Speaker off
	Audio	10Hours(LCD Off / Speaker Off), Speaker off
Power Supply	AC Adapter	DC 5.0V, 3A
	Built-In battery	3000mAh Lithium Polymer (detachable & rechargeable)
General	Dimension	130(W)X78(H)X24.5(T)
	Weight	Approx. 285g(including Battery)
	Operational Temperature	0 °C ~40 °C
Accessories & Components		Earphones, AV Cable, USB Device cable, Line-in Cable, AC Adapter, Carrying Case, User Manual, Application CD, Plastic Cover
System Requirements (Recommendation for Media Converter)	Operating System	Microsoft Windows 98SE / ME / 2000 / XP (MS Windows ME / 2000 / XP)
	CPU	Pentium III(Pentium IV recommended)
	System Memory	256MB(512MB recommended)
	Video Memory	32MB(64MB recommended)

■ Playable A/V Format

Category		Specifications
Video Playable File Format	Direct Play Video Format	MPEG1, MPEG2 MP@ML, MPEG4 SP & ASP
	Unplayable Video Format	Video file with QPEL(Quarter Pixel motion) / GMC(Global Motion Compensation) / DTS Sound encoded files, Damaged video files, video files over playable resolution
	Transcoder Video Format*	WMV, ASF
	Playable Audio Format	MP3, AAC, AC3
	Playable Resolution	MAX. 720X480
	Frame Rate	Up to 30fps
	Bit Rate	Video: MAX. 4Mbps Audio: MAX. 640Kbps
	Caption	SMI Format Supportable
	Audio Playable File Format*	Playable File Format
	Audio Playable File Format*	Bit Rate
Audio Playable File Format*	Audio Playable File Format*	Sampling rate
	Audio Playable File Format*	Tag

* WMV video format can be playable through media converter program.
* Damaged audio and video file may not be able to play.

15. Regulatory Information

FCC(Federal Communications Commission) compliance statement

- This product has manufactured and tested to comply with limits for a Class B Computing device according to the specification in FCC rules Part 15.

Operation is subject to the following 2 conditions.

1. This product may not cause harmful interference.
 2. This Product must accept any interference received, including interference that may cause undesired operation
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- If you want this product repaired, you must make manufacturer or authorized agent fix it to keep FCC registration valid. If you think this product causes any interference with your radio or television reception, try following instructions.
1. Adjust or relocate the radio or TV Antenna.
 2. Move away the device from the radio or TV.

CE(Community European) conformance statement

- This product manufactured and tested or certified in Korea against European requirements for CE as in EMC Directive 89/336/EEC (Amended by directive 92/31/EEC, 93/68/EEC)

CE marking means that the manufacturer verifies that the product meets the requirements of all new approach directives that apply to the product. It also means that the manufacturer confirms that the product has been assessed according to one of the prescribed procedures to determine that it fulfils the mandatory requirements.

- CE marking indicates that the product may legally be sold in all 18 Member States of the European Economic Area as follows. Each Member State must accept CE-marked products without requiring any further testing or approval in relation to requirements covered by new approach directives.
- Member States of the EU: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Portugal, Spain, Sweden, United Kingdom.

16. Warranty Notice

Limits of Warranty

- Manufacturer shall not be responsible for any special, incidental or consequential damages caused by natural disasters, fire, static discharges, misuse, abuse, improper handling, unauthorized repair and following issues.

- Corrosion caused by water or objects.
- Defect caused by misuse or unsuitable operation.
- Voluntarily disassembling or remodeling .
- Defect caused by impact.
- Defect caused by misuse of peripherals or accessory which are not supplied by manufacturer or its relations worldwide.
- Situation which is acknowledged as user's fault.
- Invisible to check the product info. owing to the damage of product number.
- Presents no purchasing receipt against replacements or refunds.

Warranty period

- This product is sold with a limited warranty and specific warranties not included in limited liability are available to the purchaser as follows.

Product	Warranty period	Remarks
Main body & Remote controller	1 Year	Keeping period of Service components: 3 Years after quit of sales
LCD	Look following section.	
Adapter, Battery	6 Months	
Earphones, Cables, Carrying Case	2 Months	
Battery, User Manual, Install CD, Arm/Neck string, Gifts	Exception of Warranty	

LCD Pixel Policy

- The LCD Screen on product has been manufactured to rigid standards to provide high quality for best performance. But LCD of product may have some imperfections not particular to the product but to all devices with LCD regardless of the original manufacturers of LCD. Each LCD vendor guarantees that its LCD will contain no more than a certain number of defective pixels.

So, manufacturer guarantees that this LCD product will have no more than 2 defective pixels. That means the during the period of guarantee for product, manufacturer or its relations like local distributors will repair or replace LCD product with 3 or more defective pixels at their costs. In other words, LCD with one or two defective pixel is not guaranteed for replacement or repair.

Refund and replacement policy

- Please keep the purchasing receipt for the exchange & refund of product as you need to present it in advance. Purchasing receipt is needed to check the product delivery time.

Range of replacements & refunds	Dead On Arrival or damaged In Transit.
	Incorrectly shipped.
Range of no replacements & refunds	1 month passed after delivery of product in full working condition
	Voluntarily Disassembling or remodeling by customer.
	Damage or breakage through unsuitable handling by customer.
	Change of mind.

Customer registration card

- Please take a brief moment to fill out the product registration card below and send to local distributor or you can register in MPIO (www.mpio.com).
Serial Number is located back of product and side of gift box.

Product Name*		
Serial Number*		
Purchase date*		
Purchase place*		
Customer Information	First Name*	
	Last Name*	
	Address*	
	State	
	Zip Code*	
	E-Mail*	
	Phone*	
Cellular Phone		

* section must be filled